

CLAIMS

What is claimed is:

- 1 1. A board connector adjusting system comprising:
2 a pivot pin coupled to a mechanical plate;
3 a mounting pin coupled to the mechanical plate;
4 a fastener coupled to the mounting pin, the fastener being oriented on a first side of a first
5 planar board; and
6 a spring clip oriented about the mounting pin, the spring clip oriented on a second side of
7 the first planar board, the spring clip having:
8 a plurality of lower spring legs,
9 a spring connecting two of the lower spring legs, and
10 an upper spring leg connected to the spring,
11 wherein, the pivot pin is capable of providing a pivot point for the first planar board, the pivot
12 pin allowing the first planar board to pivotally rotate about the pivot point, and wherein the
13 spring clip provides a friction fit between the first planar board and the mechanical plate.
- 1 2. The board connector adjusting system of claim 1, further comprising:
2 a rotation limiting pin coupled to the mechanical plate, the rotation limiting pin oriented
3 in a rotation limiting opening in the first planar board, wherein rotation of the first planar board
4 stops when the rotation limiting pin reaches an end of the rotation limiting opening.
- 1 3. The board connector adjusting system of claim 1, wherein the spring clip is electrically
2 conductive.
- 1 4. The board connector adjusting system of claim 4, wherein the spring clip provides
2 electrical communication between the first planar board and the mechanical plate.
- 1 5. The board connector adjusting system of claim 1, wherein the first planar board has a first
2 mounted connector on an edge of the first planar board, and wherein pivotally rotating the first
3 planar board aligns the first mounted connector with a second mounted connector, the second

4 mounted connector being mounted on a second planar board that is adjacent to the mechanical
5 plate.

1 6. The board connector adjustment system of claim 5, wherein connecting the first mounted
2 connector to the second mounted connector provides a rigid connection between the first and
3 second planar boards.

1 7. The board connector adjustment system of claim 1, wherein the mounting pin includes a
2 lip groove, the lip groove mating with the spring clip to provide a coupling between the
3 mounting pin and the spring clip.

1 8. The board connector adjustment system of claim 1, wherein the plurality of lower spring
2 legs are equally spaced radially about the mounting pin, wherein the tightening of the fastener
3 causes a uniform compression of the spring clip to prevent a movement of the first planar board
4 as pressure is applied against the first planar board.

1 9. A method of positioning a planar board, the method comprising:
2 pivoting a first planar board about a pivot pin, the pivot pin being oriented through a
3 pivot hole in the planar board, the pivot pin being coupled to a first side of a mechanical plate
4 that is co-planar with the first planar board;
5 providing a friction fit between the first planar board and the mechanical plate with a
6 spring clip, the spring clip being oriented about a mounting pin that is mounted on the
7 mechanical plate, the friction fit allowing both transverse and longitudinal movement of the first
8 planar board relative to a second planar board;
9 aligning the first planar board such that a first connector mounted on the first planar
10 board is aligned with a second connector mounted on the second planar board; and
11 upon the first planar board being aligned to the desired orientation, coupling the first and
12 second connectors.

1 10. The method of claim 9, wherein the pivot hole and the first connector are on opposite
2 ends of the first planar board.

1 11. The method of claim 9, wherein the spring clip has a plurality of lower spring legs, and
2 wherein the plurality of lower spring legs are equally spaced radially about the mounting pin, and
3 wherein the tightening of the fastener causes a uniform compression of the spring clip to prevent
4 a movement of the first planar board as the fastener is tightened.